

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/DE2005/000281

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 H01L27/15 H01L27/14 H01L31/0224 H01L33/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01L		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/044872 A (SANYO ELECTRIC CO., LTD; TOTTORI SANYO ELECTRIC CO., LTD; KOHNO, KEISHI) 30 May 2003 (2003-05-30) figure 3	1-58
P, X	-& EP 1 460 694 A 22 September 2004 (2004-09-22)	1
X	US 6 278 136 B1 (NITTA KOICHI) 21 August 2001 (2001-08-21) figure 4a	1-58
A	US R E36 747 E (MANABE ET AL) 27 June 2000 (2000-06-27) abstract	1
<div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> Further documents are listed in the continuation of box C.</span> <span><input checked="" type="checkbox"/> Patent family members are listed in annex.</span> </div>		
* Special categories of cited documents : <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*&amp;* document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search	Date of mailing of the international search report	
18 July 2005	26/07/2005	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer  Werner, A

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DE2005/000281

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03044872	A	30-05-2003	EP 1460694 A1	22-09-2004
			WO 03044872 A1	30-05-2003
			JP 2004297095 A	21-10-2004
			JP 2004297096 A	21-10-2004
			JP 2004343138 A	02-12-2004
			JP 2004343139 A	02-12-2004
			JP 2005005727 A	06-01-2005
			JP 2004297097 A	21-10-2004
			US 2005012109 A1	20-01-2005
EP 1460694	A	22-09-2004	EP 1460694 A1	22-09-2004
			US 2005012109 A1	20-01-2005
			WO 03044872 A1	30-05-2003
			JP 2004297095 A	21-10-2004
			JP 2004297096 A	21-10-2004
			JP 2004343138 A	02-12-2004
			JP 2004343139 A	02-12-2004
			JP 2005005727 A	06-01-2005
			JP 2004297097 A	21-10-2004
US 6278136	B1	21-08-2001	JP 10294491 A	04-11-1998
US RE36747	E	27-06-2000	JP 2658009 B2	30-09-1997
			JP 5211347 A	20-08-1993
			DE 69333250 D1	20-11-2003
			DE 69333250 T2	16-09-2004
			EP 1313153 A2	21-05-2003
			EP 0579897 A1	26-01-1994
			US 5408120 A	18-04-1995